

Method and device for quantitatively determining gaseous combustion components

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
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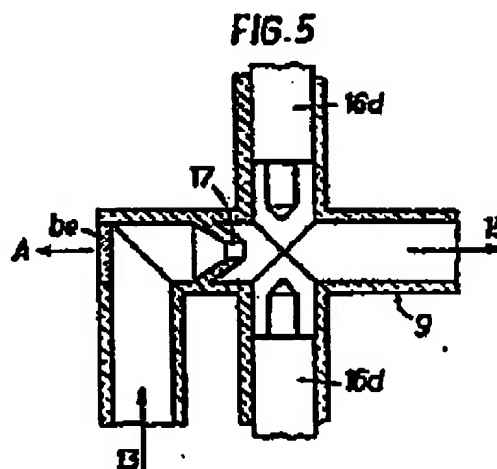
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Abstract of EP0192919

Method for quantitatively determining components such as, for example, CO, NO, NO₂, SO, SO₂, hydrocarbons and particles in combustion exhaust gases, for example, from internal combustion engines or industrial plants, in which at least a part of the exhaust gas sample to be examined is converted to the plasma state, the electromagnetic radiation emitted by the plasma is determined at least partially and the proportion of individual or multiple components is determined therefrom, and in which a high voltage spark is generated to produce the plasma in a sample chamber with the exhaust gas under examination flowing through it. Measuring device for implementing this method, in which the sample chamber (9) with the exhaust gas under examination flowing through it has one feedline (13) and one discharge line (15) for the exhaust gas and two electrodes (16d) arranged at a specific distance from one another and connected to a high voltage supply, and in which the wall of the sample chamber (9) has, at least in the vicinity of the region between the tips of the electrodes (16d), a window (be) which is at least partially transparent to the electromagnetic radiation emitted by the plasma.



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